 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. EKOS.8CP3DV1C3	APPLICATION NO. 10/620,296
	APPLICANT Tachibana, et al.	
	FILING DATE July 15, 2003	GROUP Unassigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)	
MB	3,443,226	3/18/69	Boyd				
	4,027,659	6/7/77	Slingluff				
	4,040,414	8/9/77	Suroff				
	4,319,580	3/16/82	Colley et al.				
	4,354,502	10/19/82	Colley et al.				
	4,512,762	4/23/85	Spears				
	4,531,943	6/30/85	Van Tassel et al.				
	4,582,067	4/15/86	Silverstein et al.				
	4,750,902	6/14/88	Wuchinich et al.				
	4,767,402	8/30/88	Kost et al.				
	4,780,212	10/25/88	Kost et al.				
	4,808,153	2/28/89	Parisi				
	4,870,953	10/03/89	Don Michael et al.				
	4,877,031	10/31/89	Conway et al.				
	4,917,102	4/17/90	Miller et al.				
	4,917,088	4/17/90	Crittendon				
	4,920,954	5/1/90	Alliger et al.				
	4,924,863	5/15/90	Sterzer				
	4,936,281	6/26/90	Stasz				
	4,955,863	9/11/90	Walker et al.				
	4,971,991	11/20/90	Umemura et al.				
	4,992,257	2/12/91	Bonnett et al.				
	5,021,044	6/4/91	Sharawy				
	5,149,319	9/22/92	Unger				
	5,158,071	10/27/92	Umemura et al.				
	5,163,421	11/17/92	Bernstein et al.				
	5,190,766	3/2/93	Ishihara				
MB	5,197,946	3/30/93	Tachibana				

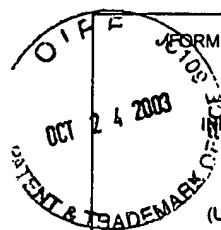
EXAMINER

*M. B. Ball*

DATE CONSIDERED

3-31-07

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
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(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT  
Tachibana, et al.FILING DATE  
July 15, 2003GROUP  
Unassigned

## U.S. PATENT DOCUMENTS

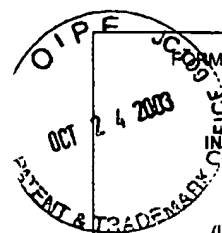
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MB	5,250,034	10/05/93	Appling et al.			
	5,267,954	12/07/93	Nita			
	5,267,985	12/07/93	Shimada et al.			
	5,269,291	12/14/93	Carter			
	5,282,785	2/1/94	Shapland et al.			
	5,286,254	2/15/94	Shapland et al.			
	5,295,484	3/22/94	Marcus et al.			
	5,304,115	4/19/94	Pflueger, Russell et al.			
	5,318,014	6/7/94	Carter			
	5,323,769	6/28/94	Bommannan et al.			
	5,327,891	7/12/94	Rammler			
	5,328,470	7/12/94	Nabel et al.			
	5,344,435	9/6/94	Turner et al.			
	5,345,940	9/13/94	Seward et al.			
	5,353,798	10/11/94	Sieben			
	5,354,279	10/11/94	Hofling			
	5,362,309	11/8/94	Carter			
	5,363,853	11/15/94	Lieber			
	5,368,036	11/29/97	Tanaka et al.			
	5,380,273	1/10/95	Dubrul et al.			
	5,390,678	2/21/95	Gesswein et al.			
	5,421,338	6/6/95	Crowley et al.			
	5,423,797	6/13/95	Sorin et al.			
	5,431,663	7/11/95	Carter			
	5,445,155	8/29/95	Sieben			
	5,447,509	9/5/95	Mills et al.			
MB	5,458,568	10/17/95	Racchini et al.			

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APPLICANT  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MB	5,465,726	11/14/95	Dickinson et al.			
	5,474,530	12/12/95	Passafaro et al.			
	5,474,531	12/12/95	Carter			
	5,489,279	2/6/96	Meserol			
	5,498,238	3/12/96	Shapland et al.			
	5,509,896	4/23/96	Carter			
	5,514,092	5/7/96	Forman et al.			
	5,520,189	5/28/96	Malinowski et al.			
	5,567,687	10/22/96	Magda et al.			
	5,594,136	1/14/97	Sessler et al.			
	5,599,923	2/4/97	Sessler et al.			
	5,603,327	2/18/97	Eberle			
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	5,616,342	4/1/97	Lyons			
	5,617,851	4/8/97	Lipkovker			
	5,618,275	4/8/97	Bock			
	5,620,479	4/15/97	Diederich			
	5,628,728	5/13/97	Tachibana et al.			
	5,628,730	5/13/97	Shapland			
	5,630,837	5/20/97	Crowley			
	5,632,970	5/27/97	Malinowski et al.			
	5,660,180	8/26/97	Malinowski et al.			
	5,663,327	9/2/97	Tarabo et al.			
	5,695,460	12/09/97	Siegel et al.			
	5,707,608	1/13/98	Liu			
	5,725,494	3/10/98	Briskin			
MB	5,735,811	4/7/98	Briskin			

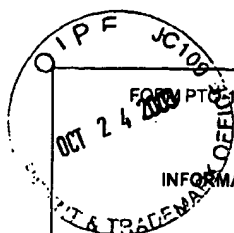
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FORM PTO 449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
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APPLICANT  
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July 15, 2003GROUP  
Unassigned

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
MB	5,770,222	6/23/98	Unger et al.			
	5,916,192	6/29/99	Nita et al.			
	5,997,497	12/07/99	Nita et al.			
	6,001,069	12/14/99	Tachibana et al.			
	6,024,718	2/15/2000	Chen et al.			
	6,096,000	08/01/2000	Tachibana et al.			
	6,210,356B1	04/03/2001	Anderson et al.			
	6,228,046B1	05/08/2001	Briskin			
MB	6,287,271B1	09/11/2001	Dubrul et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MB	DE 40 05 743	8/29/91	Germany				
	39 19 592 A1	2/22/90	Germany				
	EP 0 529 675	8/31/92	Europe				
	EP 0 629 382	11/08/93	Europe				
	668052A2	02/17/95	Europe				
	WO 89/04142	5/18/89	PCT				
	WO 95/01751	1/19/95	PCT				
	WO 96/29935	10/03/96	PCT				
	WO 94/05361	3/17/94	PCT				
	WO 96/27341	9/12/96	PCT				
	WO 96/35469	11/14/96	PCT				
	WO 96/36286	11/21/96	PCT				
	WO 91/09629	7/11/91	PCT				
	WO 92/07622	5/14/92	PCT				
MB	WO 98/4871	11/05/98	PCT				

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MB	WO 93/08738	05/13/93	PCT				
	WO 97/19645	06/05/97	PCT				
MB	WO 98/11826	3/26/98	PCT				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
MB	Japanese Journal of Cancer Research, Vol. 81, No. 3, March 1990, pp. 304-8
	Cancer Lettters, Vol. 78 (1-3), 1994, pp. 177-181
	Cancer Letters Vol. 72, 1993, pp. 195-199
	Hynynen et al.; "Small Cylindrical Ultrasound Sources Fro Induction of Hyperthermia via Body Cavities or Interstitial Implants"; Arizona Cancer Center and Department of Radiation Oncology, University of Arizona Health Sciences Center; vol. 9, No. 2; pp. 263-274; 1993
	Lee et al.; "Arrays of Muliement Ultrasound Applicators For Interstitial Hyperthermia"; IEEE Transactions on biomedical Engineering; Vol. 46, No. 7; July 1999
MB	G. Maywald et al., "Experience With Atraumatic Vascular Diagnosis With The Aid of the Ultrasonic Doppler Technique", Electromedica, Vol. 2 pp. 43-48 (1976)

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EXAMINER	<i>Mal Badi</i>	DATE CONSIDERED	3-31-07
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## INFORMATION DISCLOSURE

## STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 4

Application No.	10/620,296
Filing Date	15 July 2003
First Named Inventor	Katsuro Tachibana
Art Unit	3762
Examiner	Unknown
Attorney Docket No.	EKOS.8CP3DV1C3

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MB	1	US 3565062	02-23-1971	Kurks	
	2	US 4573470	03-04-1986	Samson, et al	
	3	US 4692139	09-08-1987	Stiles	
	4	US 4698058	10-06-1987	Greenfeld, et al	
	5	US 4710192	12-01-1987	Liotta, et al	
	6	US 4821740	04-18-1983	Tachibana, et al	
	7	US 4948587	08-14-1990	Kost, et al	
	8	US 4953565	09-04-1990	Tachibana, et al	
	9	US 5007898	04-16-1991	Rosenbluth, et al	
	10	US 5053044	10-01-1991	Mueller, et al	
	11	US 5085662	02-04-1992	Willard	
	12	US 5117831	06-02-1992	Jang, et al	
	13	US 5181920	01-26-1993	Mueller, et al	
	14	US 5269297	12-14-1993	Weng, et al	
	15	US 5279546	01-18-1994	Mische, et al	
	16	US 5315998	05-31-1994	Tachibana, et al	
	17	US 5324225	06-28-1994	Passafaro, et al	
	18	US 5342292	08-30-1994	Nita, et al	
	19	US 5344395	09-06-1994	Whalen, et al	
	20	US 5399158	03-21-1995	Lauer, et al	
	21	US 5415636	05-16-1995	Forman	
	22	US 5419763	05-30-1995	Hildebrand	
	23	US 5542935	08-06-1996	Unger, et al	
	24	US 5558642	09-24-1996	Schweich, Jr., et al	
	25	US 5569198	10-29-1996	Racchini	
	26	US 5586982	12-24-1996	Abela	
	27	US 5588962	12-31-1996	Nicholas, et al	
	28	US 5609574	03-11-1997	Kaplan, et al	
MB	29	US 5648098	07-15-1997	Porter	

Examiner Signature

Mark Buck

Date Considered

3-31-07

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	Application No.	10/620,296
	Filing Date	15 July 2003
	First Named Inventor	Katsuro Tachibana
	Art Unit	3762
(Multiple sheets used when necessary)	Examiner	Unknown
SHEET 2 OF 4	Attorney Docket No.	EKOS.8CP3DV1C3

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MB	30	US 5713848	02-03-1998	Dubrul, et al	
	31	US 5733572	03-31-1998	Unger, et al	
	32	US 5766902	06-16-1998	Craig, et al	
	33	US 5779673	07-14-1998	Roth, et al	
	34	US 5836896	11-17-1998	Rosenschein	
	35	US 5846218	12-08-1998	Briskin, et al	
	36	US 5849727	12-15-1998	Porter, et al	
	37	US 5895398	04-20-1999	Wensel, et al	
	38	US 5922687	07-13-1999	Mann, et al	
	39	US 5925016	07-20-1999	Chornenky, et al	
	40	US 5938595	08-17-1999	Glass, et al	
	41	US 5941868	08-24-1999	Kaplan, et al	
	42	US 6030374	02-29-2000	McDaniel	
	43	US 6113558	09-05-2000	Rosenschein, et al	
	44	US 6117858	09-12-2000	Porter, et al	
	45	US 6135976	10-24-2000	Tachibana, et al	
	46	US 6245747	06-12-2001	Porter, et al	
	47	US 6295990	10-02-2001	Lewis, et al	
	48	US 6296619	10-02-2001	Briskin, et al	
	49	US 6346098	02-12-2002	Yock, et al	
	50	US 6372498	04-16-2002	Newman, et al	
	51	US 6461296	10-08-2002	Desai	
	52	US 6461383	10-08-2002	Gesswein, et al	
	53	US 6485853	07-30-2002	Edwards	
	54	US 6527761	03-04-2003	Soltesz, et al	
	55	US 6551337	04-22-2003	Rabiner, et al	
	56	US 6582392	07-24-2003	Bennett, et al	
	57	US 6652581	11-25-2003	Ding	
MB	58	US 6794369	09-21-2004	Newman, et al	

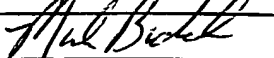
Examiner Signature <i>Mark Ball</i>	Date Considered <i>3-31-07</i>
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	Filing Date	15 July 2003
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	Art Unit	3762
SHEET 3 OF 4		Examiner: Unknown Attorney Docket No.: EKOS.8CP3DV1C3

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MB	59	US 6797293	12-27-2005	Hansmann, et al.	
	60	US 6921371	07-26-2005	Wilson	
	61	US 6958040	10-25-2005	Oliver, et al	
	62	US 6958059	10-25-2005	Zadno-Azizi	
	63	US 7141044	11-28-2006	Gentsler	
	64	US 2001/0007666	07-12-2001	Hoffman, et al	
	65	US 2001/0053384	12-20-2001	Greenleaf, et al	
	66	US 2002/0032394	03-14-2002	Brisken, et al	
	67	US 2002/0068717	06-06-2002	Borrelli	
	68	US 2003/0069525	04-10-2003	Brisken, et al	
	69	US 2004/0024347	02-05-2004	Wilson, et al	
	70	US 2004/0039329	02-26-2004	Ueberle	
	71	US 2004/0106847	06-03-2004	Shaw, et al	
MB	72	US 2005/0027247	02-03-2005	Carrison, et al	

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Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
MB	73	EP 0 189 329	07-30-1986	Fischell, et al		
	74	JP-2-180275	07-13-1990	Tachibana		X
	75	WO 98/58699	12-30-1998	Tachibana, et al		
	76	WO 99/25385	05-27-1999	Unger, et al		
	77	WO 99/33500	07-08-1999	Newman, et al		
	78	WO 99/34858	07-15-1999	Liu, et al		
MB	79	WO 99/39738	08-12-1999	Schneider, et al		

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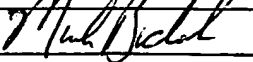
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	First Named Inventor	Katsuro Tachibana
	Art Unit	3762
(Multiple sheets used when necessary)	Examiner	Unknown
SHEET 4 OF 4	Attorney Docket No.	EKOS.8CP3DV1C3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
MB	80	Bao, et al. "Transfection of a Reporter Plasmid into Cultured Cells by Sonoporation In Vitro," Ultrasound in Med. and Biol., Vol. 23, No. 6, pp. 953-	
	81	Cancer Letters, Vol. 72, 1993, pp. 195-199	
	82	Fechmeier, et al. "Transfection of Mammalian Cells with Plasmid DNA by Scrape Loading and Sonication Loading," Proc. Natl. Acad. Sci. USA, Vol. 84, pp. 8463-8467, December 1987	
	83	Feldman, et al. "Optimal Techniques for Arterial Gene Transfer," Cardiovascular Research, 35 (1997) pp. 391-404	
	84	Kim, et al. "Ultra-sound Mediated Transfection of Mammalian Cells," Human Gene Therapy, 7: 1339-1346 (July 10, 1996)	
	85	Kotnis, et al. "Optimisation of Gene Transfer into Vascular Endothelial Cells Using Electroporation," Eur J. Vasc Surg, 9, 71-79 (1995)	
	86	Porter, et al "Interaction of Diagnostic Ultrasound with Synthetic Oligonucleotide-Labeled Perfluorocarbon-Exposed Sonicated Dextrose Albumin Microbubbles," J Ultrasound Med, 15:557-584, 1996	
	87	Rosenschein, U. et al., "Experimental Ultrasonic Angioplasty: Disruption of Atherosclerotic Plaques and Thrombi in Vitro and Arterial Recanalization in	
	88	Tachibana, K. "Enhancement of Fibrinolysis with Ultrasound Energy", JVIR, Vol. 3, No. 2, May 1992, pp. 299-303	
	89	Tsurumi, et al. "Direct Intramuscular Gene Transfer of Naked DNA Encoding Vascular Endothelial Growth Factor Augments Collateral Development and Tissue Perfusion," Circulation, 1996; 94: 3281-3290	
	90	Unger, et al. "Ultrasound Enhances Gene Expression of Liposomal Transfection," Investigative Radiology, Vol. 32, No. 12, pp. 723-727, 1997	
	91	Wyber, et al. "The Use of Sonication for the Efficient Delivery of Plasmid DNA into Cells," Pharmaceutical Research, Vol. 14, No. 6, pp. 750-756	
MB	92	Yumita, N. et al., "Synergistic Effect of Ultrasound and Hematoporphyrin on Sarcoma 180", Jpn., J. Cancer Res., Vol. 81, No. 3, Mar 1990, pp. 304-308	

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Examiner Signature 	Date Considered 3-31-07
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SHEET 1 OF 1

Application No.	10/620,296
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Attorney Docket No.	EKOS.8CP3DV1C3

## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MB	1	5,876,989	03-02-1999	Berg et al.	
MB	2	6,680,301	01-20-2004	Berg et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
MB	3	WO 96/07432	03-14-1996	Berg		

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
MB	4	AKHTAR, <i>Anti-HIV therapy with antisense oligonucleotides and ribozymes: realistic approaches or expensive myths?</i> (J. Antimicrob Chemother. 38(2): 159-165, 1996)	
	5	ANDERSON, <i>Human gene therapy.</i> (Nature 392:25-30, 1998)	
	6	BRANCH, <i>A Good Antisense Molecule is Hard to Find,</i> (Trends in Biochem Sci 23: 45-50, 1998)	
	7	CROOKE, <i>Basic Principles of Antisense Therapeutics</i> (Springer-Verlag, Eds, New York, 1998, pgs. 1 and 4)	
	8	HO and PARKINSON, <i>Antisense Oligonucleotides as Therapeutics for Malignant Diseases,</i> (Seminars in Drug Discovery 24(2): 187-202, 1997)	
	9	ORKIN and MOTULSKY, <i>Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy,</i> (p 1-38, 12/7/1995)	
	10	ROMANO et al., <i>Latest Developments in Gene Transfer Technology: Achievements, Perspectives, and Controversies over Therapeutic Applications,</i> (Stem Cells 18: 19-39, 2000)	
	11	SOMIA and VERMA, <i>Gene Therapy: Trials and Tribulations,</i> (Nature Reviews Genetics 1: 91-99, 2000)	
MB	12	VERMA et al., <i>Gene Therapy - promises, problems and prospects,</i> (Nature 389: 239-242, 1997)	

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Examiner Signature	<i>Mark Bickel</i>	Date Considered	3-31-07
<p>*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>			

T<sup>1</sup> - Place a check mark in this area when an English language Translation is attached.

PTO/SB/08 Equivalent

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Multiple sheets used when necessary) SHEET 1 OF 1	Application No.	10/620,298
	Filing Date	July 15, 2003
	First Named Inventor	Tachibana, et al.
	Art Unit	3783
	Examiner	Unknown
		Attorney Docket No. EKOS.8CP3DV1C3

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MB	1	5,081,993	1/21/82	Kitney	
MB	2	5,895,356	4/20/99	Andrus	
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## FOREIGN PATENT DOCUMENTS

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	9					
	10					
	11					
	12					
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## NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
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Examiner Signature <i>M. Bell</i>	Date Considered 3-31-07
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	